

0069451

SAF-RC-001
Industrial Hygiene Sampling
FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG 06I-0647-01 SAF-RC-001

Rad only ☒ Chem only Rad & Chem

☒ Complete Partial

300 Area 303M Bldg

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Cover Page

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Report Identification Number: 06I-0647-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF#: RC-001 / R303MO J451
Payroll#: 73338

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
13 Feb 2006	J11531	06I05133	NMAM 7300M	G061G01Y	G WIPE
13 Feb 2006	J11532	06I05134	NMAM 7300M	G061G01Y	G WIPE
13 Feb 2006	J11533	06I05135	NMAM 7300M	G061G01Y	G WIPE
13 Feb 2006	J11534	06I05136	NMAM 7300M	G061G01Y	G WIPE

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Name: Joanna C. Sanchez
Title: Chemist
Date: February 16, 2006

Report Identification Number: 06I-0647-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF#: RC-001 / R303MO J451
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General Set Information: There are 4 samples in set 06I-0647-01 which were analyzed for beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.01 ug/sample.

Method Blank Analysis: No beryllium was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

Dilution(s): None.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS results were within the control limits of +/- 20%. The Relative Percent Difference (RPD) between the LCS and the LCSD was within the control limit of 20%.

Replicate Analysis: One sample in this batch was replicated. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:
Final result for aqueous samples ($\mu\text{g}/\text{sample}$) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu\text{g}/\text{L}$)

B = Concentration factor from sample preparation

= $\frac{\text{Final Volume of Digestate (L)}}{\text{Sample}}$

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu\text{g}/\text{L}) \times (0.025 \text{ L}/\text{sample}) \times (1) = 0.025 \mu\text{g}/\text{sample}$

Miscellaneous Comments: None



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Report Identification Number: 06I-0647-01
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Payroll#: 73338

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium $\mu\text{g}/\text{sample}$		Beryllium $\mu\text{g}/\text{m}^3$		Air Volume L	
J11531	06I05133	15 Feb 2006	<0.01	U	**		**	
J11532	06I05134	15 Feb 2006	<0.01	U	**		**	
J11533	06I05135	15 Feb 2006	<0.01	U	<0.10	U	100.	
J11534	06I05136	15 Feb 2006	<0.01	U	<0.10	U	100.	
Limit of Detection (LOD)			0.01					
Required Detection Limit (RDL)								

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.

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 Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
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 SAF: RC-001 / R303MO J451
 Payroll#: 73338

Batch ID: G061G01Y

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-241336-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
QC-241336-1	LCS	Beryllium	µg/sample	10.9	NA	10.0	109.	NA
QD-241336-1	LCSD	Beryllium	µg/sample	10.7	10.9	10.0	107.	1.61

MB - Method Blank
 LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample Duplicate
 MS - Matrix Spike
 MSD - Matrix Spike Duplicate
 LD - Laboratory Duplicate

NA - Not Applicable
 ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0
 MS, MSD Percent Rec. = ((Result - Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100

DLEI-0647-01

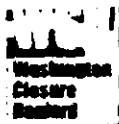
CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: Chris Schilling		Company Contact: Denise A. Pitts and Henry W. Ruby		Telephone No.: 531-1229		Project Coordinator: Joan H. Kasper		Date Turnaround: 24 hr	
Payroll #: 7338		Sampling Location: 300 Ave. / 303m Bldg		SPECIAL INSTRUCTIONS: All relevant COAs must be provided. R303m2451		SAF No.: RC-001			
Type of Sample: Be Pb Cd		Wipe Sample Media: Cloth <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Other <input type="checkbox"/> N/A		ANALYSIS METHOD (SPECIFIC): NIOSH 7300 Be Pb Cd		Method of Shipment: Federal Express			
Shipped To: Data Chem Salt Lake		Matrix: A - AIR W1 - WIFE X - OTHER		Preservation (i.e. cooling required, etc.):		Bill of Lading/Air Bill No.: 8544 9435 4792			
POSSIBLE SAMPLE HAZARD MARKS: Be Pb Cd		Special Handling and/or Storage: N/A							

SAMPLE ANALYSIS									
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area (SQ. CM)	Comments	No	No	No	No	No
					Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold
						Lead Wipe	Cd Wipe	Cd Airborne	
311531	W1	2-13-06	N/A	Black					
311532	W1	2-13-06	N/A	Black					
311533	W1	2-13-06	100	N/A					
311534	W1	2-13-06	100	N/A					

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

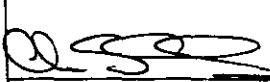
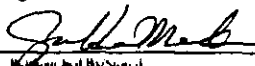
Collector: <i>Chris Schilling</i>	Company Contact Denise A. Pitts and Henry W. Ruby	Telephone No. 531-1229	Project Coordinator Joan H. Kessner	Data Turnaround							
Payroll #: 73338	Sampling Location 300 Area / 303 MBldg	SPECIAL INSTRUCTIONS All relevant COAs must be provided: R303M05461	SAF No. RC-001	24 hr							
Type of Sample: Be Pb Cd	Wipe Sample Media: Ghost <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Other N/A	ANALYSIS METHOD (SPECIFIC): NIOSH 7300 Be Pb Cd	Method of Shipment Federal Express								
Shipped To: Data Chem Salt Lake			Bill of Lading/Air Bill No. 8544 9435 4792								
POSSIBLE SAMPLE HAZARD/RI MARKS Be Pb Cd	MATRIX A - AIR WI - WIPE X - OTHER	Preservation (i.e., cooling required, etc.)	No	No	No	No	No	No	No	No	No
Special Handling and/or Storage N/A			No	No	No	No	No	No	No	No	No
SAMPLE ANALYSIS			Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cd Wipe	Cd Airborne	
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area <u>100</u> cm ²	Comments							
J11531	WI	2-13-06	N/A	Black			X				
J11532	WI	2-13-06	N/A	Black			X				
J11533	WI	2-13-06	100	N/A			X				
J11534	WI	2-13-06	100	N/A			X				
COPY											
FIELD SAMPLE COPY											

Enter on line below the first Sample Number from Page One:

511531

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

SIGN / PRINT NAMES / USE MILITARY TIME

Relinquished By/Name:	DATE / TIME:	Received By/Name:	DATE / TIME:
 Chris Schilling	2-13-06 1600	Locked cabinet Rm 16 3746 Bldg	2-13-06 1600
Relinquished By/Name:	DATE / TIME:	Received By/Name:	DATE / TIME:
Locked cabinet bldg 3746 Rm 16			
 Goldie Mathan	02-14-06 1445	RZ Steffler R. J. Steffler	2-14-06 1445
Relinquished By/Name:	DATE / TIME:	Received By/Name:	DATE / TIME:
RZ Steffler R. J. Steffler	WCH 2-14-06 1600	Fed Ex	
Relinquished By/Name:	DATE / TIME:	Received By/Name:	DATE / TIME:
Relinquished By/Name:	DATE / TIME:	Received By/Name:	DATE / TIME:
Relinquished By/Name:	DATE / TIME:	Received By/Name:	DATE / TIME:
Relinquished By/Name:	DATE / TIME:	Received By/Name:	DATE / TIME:
Relinquished By/Name:	DATE / TIME:	Received By/Name:	DATE / TIME:
Relinquished By/Name:	DATE / TIME:	Received By/Name:	DATE / TIME:
LABORATORY SECTION	Received By	Title	DATE / TIME

REVIEWED BY:

DATE:

PRINT/SIGN NAME